Posting Date: September 28, 2020

Request for Proposals Notification

Title: City of Fort Wayne Added travel lanes on Hillegas Road between W. State Blvd. and W. Coliseum Blvd, urban street design including sidewalk and multi-use path (Des # 1901705) in Fort Wayne District.

Response Due Date & Time: October 30, 2020 at 4:00 pm

This Request for Proposals (RFP) is official notification of needed professional services. This RFP is being issued to solicit a letter of Interest (LOI) and other documents from firms qualified to perform engineering work on federal aid projects. A submittal does not guarantee the firm will be contracted to perform any services but only serves notice the firm desires to be considered.

Contact for Questions:

Patrick W. Zaharako, P.E., MBA
200 E. Berry Street, Suite 210
Fort Wayne, IN 46802-1804
260-427-2789
Patrick.Zaharako@cityoffortwayne.org

Submittal Requirements:

1. Letter of Interest – One (1) pdf Copy (required content and instructions follow)

2. One (1) signed pdf Copy of the Affirmative Action Certification and associated required documents for all items if the DBE goal is greater than 0%.

Submit To:
Proposals may only be submitted electronically by e-mail to
Patrick.Zaharako@cityoffortwayne.org .

The Proposal shall be submitted no later than the response due date and time prescribed above.

Selection Procedures:
Consultants will be selected for work further described herein, based on the evaluation of the Letter of Interest (LOI) and other required documents. The Consultant Selection Rating Form used to evaluate and score the submittals is included for your reference. Final selection ranking will be determined by:

- (•) The weighted score totals with the highest score being the top ranked firm
- ( ) Rank totals with the lowest rank total being the top ranked firm

Requirements for Letters of Interest (LOI)

A. General instructions for preparing and submitting a Letter of Interest (LOI).

1. Provide the information, as stated in Item B below, in the same order listed and signed by an officer of the firm. Signed and scanned documents, or electronically applied signatures are acceptable. Do not send additional forms, resumes, brochures, or other material unless otherwise noted in the item description.

2. LOI's shall be limited to twelve (12) 8 ½" x 11" pages that include Identification, Qualifications, Key Staff, and Project Approach.

3. LOI's must be received no later than the "Response Due Date and Time"; as shown in the RFP header above. Responses received after this deadline will not be considered. Submittals must include all required attachments to be considered for selection.

B. Letter of Interest Content

1. Identification, Qualifications and Key Staff

   a. Provide the firm name, address of the responsible office from which the work will be performed and the name and email address of the contact person authorized to negotiate for the associated work.

   b. List all proposed sub consultants, their DBE status, and the percentage of work to be performed by the prime consultant and each sub consultant. (See Affirmative Action Certification requirements below.) A listing of certified DBE's eligible to be considered for selection as prime consultants or sub-consultants for this RFP can be found at the "Prequalified Consultants" link on the Indiana Department of Transportation (INDOT) Consultants Webpage. (http://www.in.gov/indot/2732.htm).

   c. List the Project Manager and other key staff members, including key sub consultant staff, and the percent of time the project manager will be committed for the contract, if selected. Include project engineers for important disciplines and staff members responsible for the work. Address the experience of the key staff members on similar projects and the staff qualifications relative to the required item qualifications.

d. Describe the capacity of consultant staff and their ability to perform the work in a timely manner relative to present workload.

2. Project Approach

a. Provide a description of your project approach relative to the advertised services. For project specific items confirm the firm has visited the project site. For all items address your firm's technical understanding of the project or services, cost containment practices, innovative ideas and any other relevant information concerning your firm's qualifications for the project.

Requirements for Affirmative Action Certification

A completed Affirmative Action Certification form is required for all items that identify a DBE goal greater than "0", in order to be considered for selection. The consultant must identify the DBE firms with which it intends to subcontract.

On the Affirmative Action Certification, include the contract participation percentage of each DBE and list what the DBE will be subcontracted to perform.

If the consultant does not meet the DBE goal, the consultant must provide documentation in additional pages after the form that evidences that it made good faith efforts to achieve the DBE goal.

All DBE subcontracting goals apply to all prime submitting consultants regardless of the prime's status of DBE.

INDOT DBE Reciprocity Agreement with KYTC

An Agreement between INDOT and the Kentucky Transportation Cabinet (KYTC) established reciprocal acceptance of certification of DBE firms in their respective states under the Unified Certification Program (UCP) pursuant to 49 CFR ?26.81(e) and (f).

Copies of the DBE certifications, as issued by INDOT or the Kentucky Transportation Cabinet (KYTC), are to be included as additional pages after the AAC form for each firm listed on the AAC form. The following are DBE Locator Directories for each State Transportation Agency:

INDOT: https://entapps.indot.in.gov/DBELocator/

KYTC: https://transportation.ky.gov/Civil-Rights-and-Small-Business-Development/Pages/Certified-DBE-Directory.aspx

Information about the Indiana DBE Program is available at: **https://www.in.gov/indot/2674.htm.**

Information about the KYTC DBE Program is available at: **https://transportation.ky.gov/Civil-Rights-and-Small-Business-Development/Pages/default.aspx.**

Work item details:

Local Public Agency: City of Fort Wayne

Project Location: Hillegas Road between W. State Blvd and W. Coliseum Blvd

Project Description: Added travel lanes (widen from two lanes to four lanes, with center turn lane) on Hillegas Road between W. State Blvd and W. Coliseum Blvd. Project will be designed as an urban street with curb and gutter, storm sewers, pedestrian facilities, street lighting and urban landscaping. Preliminary concept drawings and the waters report are included as attachments.

INDOT Des #: 1901705

Phases Included: PE, RWE
*Please note that this project will be designed with local standards (not INDOT) since the City has a design exemption.

Estimated Construction Amount: $11,000,000

Funding: 80% Federal & 20% Local

Term of Contract: Until Project Completion

DBE goal: 7%

Required Prequalification Categories:

- ☑ 5.2 Environmental Document Preparation - CE
- ☑ 6.1 Topographical Survey Data Collection
- ☑ 8.1 Non-Complex Roadway Design
- ☐ 9.1 Level 1 Bridge Design
- ☑ 11.1 Right of Way Plan Development
- ☑ Additional Categories Listed Below:
- ☐ 12.1 Project Management for Aquisition Services
- ☑ 12.2 Title Search
- ☐ 12.4 Appraisal
- ☐ 12.5 Appraisal Review
- ☐ 13.1 Construction Inspection

5.8 Noise Analysis and Abatement Design

7.1 Geotechnical Engineering Services

10.1 Traffic Signal Design

10.4 Lighting Design

LPA Consultant Selection Rating Sheet

RFP Selection Rating for Hillegas Rd. Widening Project from W. State Blvd. to W. Coliseum Blvd **Des. No. 1901705**

Fort Wayne Public Works

Services Description: PE, RWE

Consultant Name:

Evaluation Criteria to be Rated by Scorers

Category	Scoring Criteria	Scale	Score	Weight	Weighted Score
Past Performance	**Performance evaluation score averages from historical performance data.**				
	Quality score for similar work from performance database.			6	
	Schedule score from performance database.			3	
	Responsiveness score from performance database.			1	
Capacity of Team to do Work	**Evaluation of the team's personnel and equipment to perform the project on time.**			20	
	Availability of more than adequate capacity that results in added value.	1			
	Adequate capacity to meet the schedule.	0			
	Insufficient available capacity to meet the schedule.	-1			
Team's Demonstrated Qualifications	**Technical Expertise: Unique Resources that yield a relevant added value or efficiency to the deliverable.**			15	
	Demonstrated outstanding expertise and resources identified for required services for value added benefit.	2			
	Demonstrated high level of expertise and resources identified for required services for value added benefit.	1			
	Expertise and resources at appropriate level.	0			
	Insufficient expertise and/or resources.	-3			
Project Manager	**Predicted ability to manage the project, based on: experience in size, complexity, type, subs, documentation skills.**			20	
	Demonstrated outstanding experience in similar type and complexity.	2			
	Demonstrated high level of experience in similar type and complexity.	1			
	Experience in similar type and complexity shown in resume.	0			
	Experience in different type or lower complexity.	-1			
	Insufficient experience.	-3			
Approach to Project	**Project Understanding and Innovation that provides cost and/or time savings.**			15	
	High level of understanding and viable innovative ideas proposed.	2			
	High level of understanding of the project.	1			
	Basic understanding of the project.	0			
	Lack of project understanding.	-3			
			Weighted Sub-Total:		

It is the responsibility of scorers to make every effort to identify the firm most capable of producing the highest deliverables in a timely and cost effective manner without regard to personal preference.

I certify that I do not have any conflicts of interest associated with this consultant as defined in 49CFR118.36.

I have thoroughly reviewed the letter of interest for this consultant and certify that the above scores represent my best judgment of this firm's abilities.

Signature: _____ Print Name: _____

Title: _____ Date: _____

(Form Rev. 4-7-16)

(Rev. 06/27/18)

Des. #: 1901705

Affirmative Action Certification (AAC) for Disadvantaged Business Enterprises (DBE)

I hereby certify that my company intends to affirmatively seek out and consider Disadvantaged Business Enterprises (DBEs) certified by the State of Indiana's DBE Program and the Kentucky Transportation Cabinet (KYTC) DBE Program to participate as part of this proposal. An Agreement between INDOT and KYTC established reciprocal acceptance of certification of DBE firms in their respective states under the Unified Certification Program (UCP) pursuant to 49 CFR §26.81(e) and (f).

I acknowledge that this certification is to be made an integral part of this proposal. I understand and agree that the submission of a blank certification may cause the proposal to be rejected. I certify that I have consulted the following DBE websites to confirm that the firms listed below are currently certified DBEs:

INDOT: https://entapps.indot.in.gov/DBELocator/
KYTC: https://transportation.ky.gov/Civil-Rights-and-Small-Business-Development/Pages/Certified-DBE-Directory.aspx

I certify that I have contacted the certified DBE's listed below, and if my company becomes the CONSULTANT, these DBEs have tentatively agreed to perform the services as indicated. I understand that neither my company nor I will be penalized for DBE utilization that exceeds the goal. After contract award, any change to the firms listed in this Affirmative Action Certification to be applied toward the DBE goal must have prior approval by INDOT's Economic Opportunity Division.

I. DBE Subconsultants to be applied toward DBE goal for the RFP item:

Certified DBE Name	Service Planned	Estimated Percentage to be Paid*
		%
		%
		%
		%

II. DBE Subconsultants to be utilized beyond the advertised DBE goal for the RFP item:

Certified DBE Name	Service Planned	Estimated Percentage to be Paid*
		%
		%
		%
		%

Estimated Total Percentage Credited toward DBE Goal:_____

Estimated Percentage of Voluntary DBE Work Anticipated over DBE Goal:_____

Company Name: _____

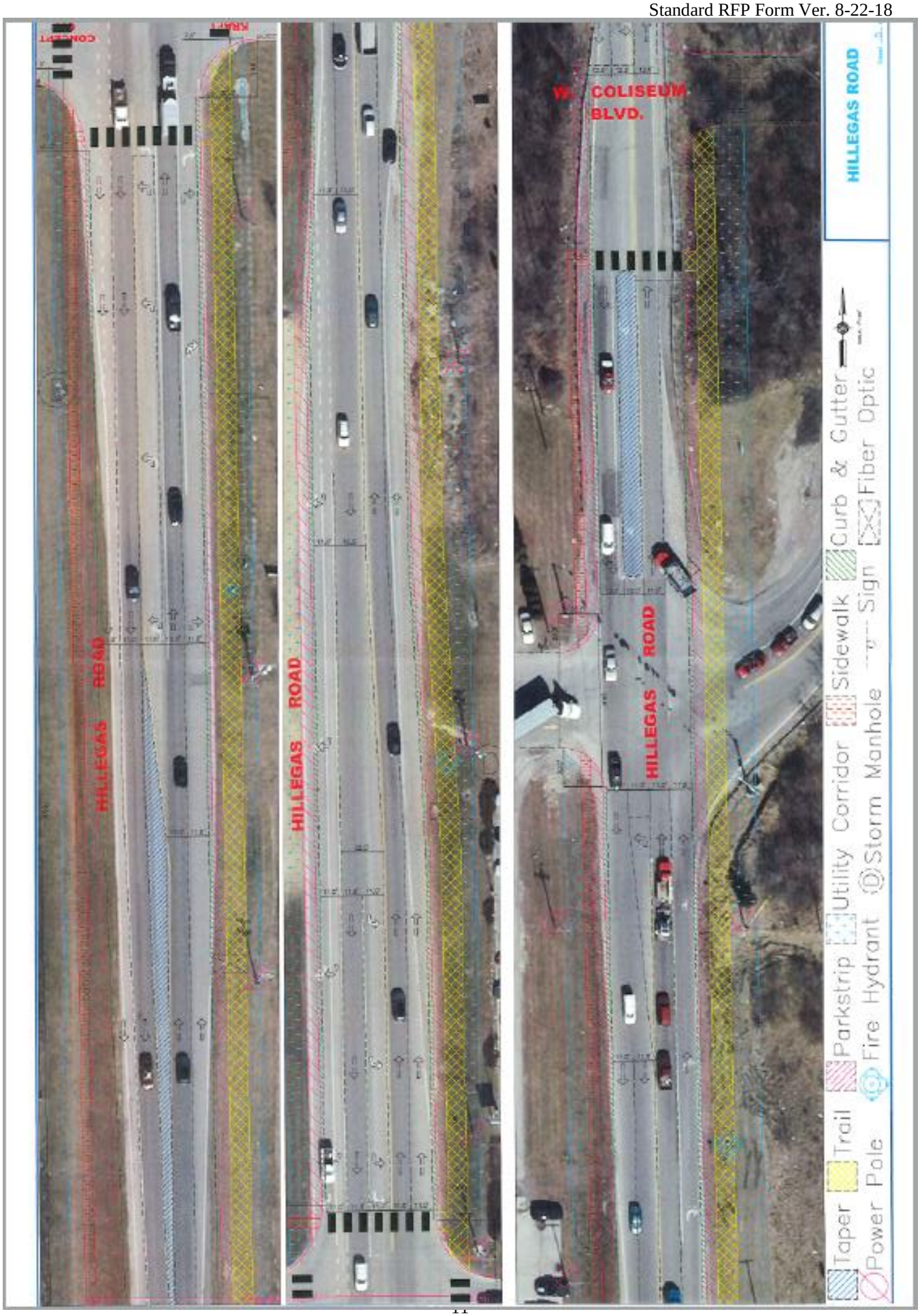
Signature: _____ **Date:** _____

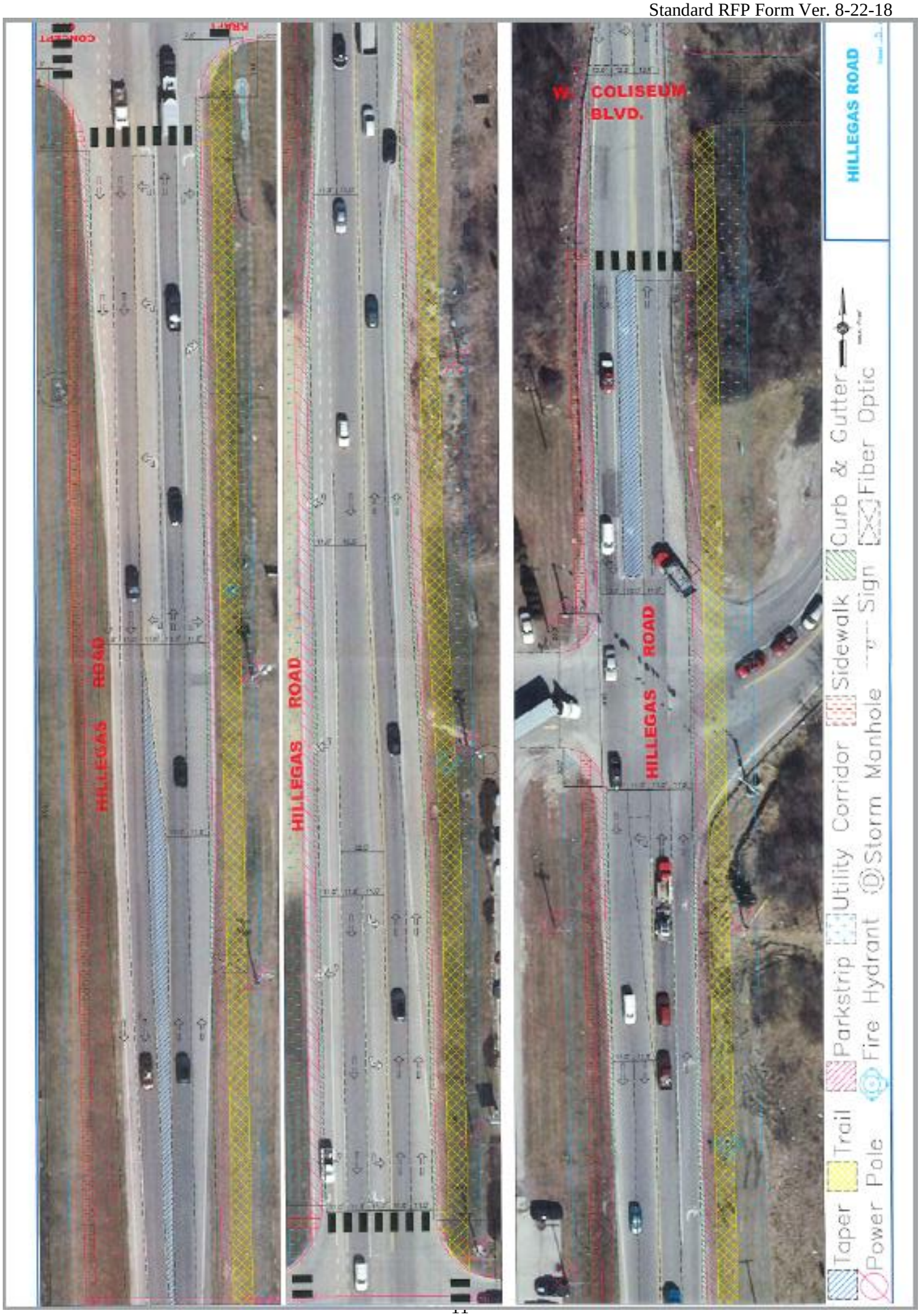
* It is understood that these individual firm percentages are estimates only and that percentages paid may be greater or less as a result of negotiation of contract scope of work. My firm will use good faith efforts to meet the overall DBE goal through the use of these or other certified and approved DBE firms.

HILLEGAS ROAD
Taper
Trail
Parkstrip
Utility Corridor
Sidewalk
Curb & Gutter
Power Pole
Fire Hydrant
Water Valve
Sewer Manhole
Fiber Optic


HILLEGAS ROAD
Church Access
Butler Rd
Superior Ridge Dr
Clearview Dr
Hillegas Rd
HILLEGAS ROAD
Curb & Gutter
Sidewalk
Fiber Optic
Utility Corridor
Parkstrip
Trail
Taper
Sign
Fire Hydrant
Power Pole

HILLEGAS ROAD
Independence Dr
Taper
Trail
Parkstrip
Utility Corridor
Sidewalk
Curb & Gutter
Power Pole
Fiber Optic
Sign
Fire Hydrant


HILLEGAS ROAD
HILLEGAS ROAD
W. COLISEUM BLVD.
HILLEGAS ROAD
HILLEGAS ROAD
Taper
Trail
Parkstrip
Utility Corridor
Sidewalk
Curb & Gutter
Power Pole
Fire Hydrant
Storm Manhole
Sign
Fiber Optic


HILLEGAS ROAD
HILLEGAS ROAD
W. COLISEUM BLVD.
HILLEGAS ROAD
HILLEGAS ROAD
Taper
Trail
Parkstrip
Utility Corridor
Sidewalk
Curb & Gutter
Power Pole
Fire Hydrant
Storm Manhole
Sign
Fiber Optic

Waters of the U.S. Determination

Hillegas Road, from Coliseum Blvd. to State Blvd.
Added Travel Lane Project
Des. No.: 1901705
Allen County, Indiana

Prepared for:
City of Fort Wayne
Citizens Square, Suite 280
210 East Berry Street
Fort Wayne, Indiana 46802

Prepared by:
GAI Consultants, Inc.
Fort Wayne Office
9921 Dupont Circle Drive West, Suite 100,
Fort Wayne, IN 46825

Author:

Raquel Walker
Senior Environmental Specialist
r.walker@gaiconsultants.com
(260) 240-4661

Report Completed:
September 17, 2020

Table of Contents

1.0 Introduction

The City of Fort Wayne and Federal Highway Administration (FHWA) intend to proceed with an added travel lane project on Hillegas Road in Allen County, Indiana. (Figure 1). This project is located on Hillegas Road, from Coliseum Boulevard to State Boulevard in Sections 28, 29, 32 & 33 of Township 31 North, Range 12 East, as shown on the Fort Wayne West USGS 7.5 Minute Topographic Map. The purpose of this project is to increase travel capacity and improve pedestrian facilities for this section of Hillegas Road, from Coliseum Boulevard to State Boulevard. In addition, a trail will be added on the east side of the roadway, a sidewalk will be installed on the west side of the roadway, ADA compliant curb ramps will be added at all intersections, and an underground storm sewer system will be installed to address drainage on the roadway pavement.

GAI Consultants, Inc. (GAI), on behalf of the City of Fort Wayne conducted waterbody investigations of the project study area on August 26, 2020. GAI identified approximate boundaries of waterbodies located within the project study area. This study area was determined in the field by GAI based upon likely work areas and impacts to regulated Waters of the U.S. as a result of construction activities. This report describes the methods and results of the environmental field survey.

2.0 Methods

Wetland delineations were conducted in accordance with the 1987 United States Army Corps of Engineers (USACE) *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (USACE, 2012). Wetlands were classified using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). Classification of the indicator status of vegetation is based on *The National Wetland Plant List:* 2016 wetland ratings (Lichvar et al. 2016).

The USACE will assert jurisdiction over traditionally navigable waters (TNW), adjacent wetlands, and non-navigable tributaries of TNW that have "relatively permanent" flow, and wetlands that border these waters, regardless of whether or not they are separated by roads, berms, and similar barriers. The USACE will use a case-by-case "significant nexus" analysis to determine whether waters and their adjacent wetlands are jurisdictional. A "significant nexus" can be found where waters, including adjacent wetlands, alter the physical, biological, or chemical integrity of the TNW based on consideration of several factors.

Each wetland and waterbody feature was given a unique map designation and each boundary flag location was recorded using a SX Blue II^{+} GNSS model global positioning system mapping grade unit with the capability of sub-meter accuracy. Judgmental upland and wetland soil test pits were taken within the study corridor at the discretion of the delineator to confirm the presence or absence of wetlands in areas with exhibiting wetland indicators. Wetland boundaries and other waterbody centerlines and/or perimeters were mapped including ordinary high water mark (OHWM) and top-of-bank (TOB). Waterbody data collected included general morphological characteristics, flow regime, substrate, jurisdictional connection, and significant nexus determination.

All likely jurisdictional streams, waterbodies, and wetlands were evaluated for quality using the 2018 *INDOT Waters of the United States Documentation* three tier classification system (i.e., poor, average, or excellent). Determinations of quality for streams were based on the substrate, riffle and pools, overhead cover, presence of aquatic organisms or potential habitat value, opacity, sinuosity, and riparian width. In instances where mitigation is likely to be required, federal or state aquatic endangered or threatened species are present, or the stream has a designation as a state wild or scenic river, a Headwaters Habitat Evaluation Index (HHEI) or Qualitative Habitat Evaluation Index (QHEI) is used. Wetland quality was derived from metrics in the Indiana Wetland Rapid Assessment Protocol (In-WRAP

2005) and the wetland quality descriptions on the basis of disturbance, native plant diversity and cover, and content of exotic or invasive species.

3.0 Background Information

Prior to the fieldwork, background information and existing mapping was reviewed to establish the probability and potential location of wetlands on the site. Available information from government agency documents and private sources were collected and reviewed in order to characterize the project area, as well as identify potential wetlands and other regulated features located within the project study area.

The growing season in the project area is generally between April and October in Allen County, Indiana [United States Department of Agriculture, Natural Resource Conservation Service (USDA-NRCS)] (USDA-NRCS, 2016). Field observations were supplemented with an intensive review of United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping, USDA soils mapping, historical aerial photography (ArcGIS and Google Earth), and local landscape topography/morphology.

The project study area topography is mostly flat, with elevations ranging from 800 to 845 ft. Drainage patterns were identified via topographic elevation contours to drain towards the unnamed tributaries (UNT) within the project area. The project study area is within the Auburn Morainal Complex physiographic region of the Northern Moraine and Lake Region (Indiana Geological Survey, 2000). Land use in the vicinity of the project is primarily urban residential and commercial.

3.1 National Wetland Inventory

The USFWS' NWI Wetlands Mapper was reviewed for potential wetland locations. The NWI data of the area (Figure 4) identified one wetland within the study area. The nearest mapped wetland passes through the study area and is classified as an R4SBC wetland. This wetland is confined to the channel of UNT 2.

3.2 Watersheds

The project study area is in the Western Lake Erie sub-region, of the Great Lakes region, 12 digit hydrologic unit code (HUC12) 041000040605.

3.3 NRCS Soil Survey

The NRCS Soil Survey of Allen County identified eight soil series within the project study area (Figure 5, Table 1). All of the identified soils were identified as being hydric.

Table 1. NRCS Soil Survey Area of Interest Results

Map Unit Name (Map Symbol)	Drainage Properties	Hydrology	Hydric Status
Blount loam, Interlobate Moraines, 0 to 2 percent slopes (BmA)	Somewhat Poorly Drained	No Ponding, No Flooding	Yes (0-32%)
Blount loam, interlobate moraines, 1 to 4 percent slopes (BmB2)	Somewhat Poorly Drained	No Ponding, Frequent Flooding	Yes (1-32%)
Eel silt loam, 0 to 2 percent slopes (Es)	Moderately Well Drained	No Ponding, Frequent Flooding	Yes (1-32%)
Lenawee silty clay loam (Ls)	Poorly Drained	No Ponding, No Flooding	Yes (100%)

Glynwood silt loam, 2 to 6 percent slopes (MrB)	Moderately Well Drained	No Ponding, No Flooding	Yes (1-32%)
Glynwood silt loam, 2 to 6 percent slopes, eroded (MrB2)	Moderately Well Drained	No Ponding, No Flooding	Yes (1 to 32%)
Morley silt loam, 6 to 12 percent slopes, eroded (MrC2)	Moderately Well Drained	No Ponding, No Flooding	Yes (1 to 32%)
Pewamo silty clay loam, 0 to 1 percent slopes (Pe)	Very Poorly Drained	Frequent Ponding, No Flooding	Yes (66-99%)

4.0 Results

Three likely jurisdictional streams were identified within the study area (Figure 8).

4.1 Waterbodies

Detailed descriptions of the delineated streams and other waterbodies are discussed below. Stream features and other waterbodies are described by morphological characteristics, flow regime, substrate, jurisdictional connection and significant nexus determination. Waterbodies identified within the project study area are represented in Table 2.

UNT 1 (approximately 77 feet onsite)

UNT 1 is a perennial stream that flows northwest to southeast through the project area. UNT 1 is a manmade ditch that does not have a mapped upland drainage area. UNT 1 is a channelized stream, with artificial banks and a substrate comprised primarily of riprap and silt, and has a defined bed, bank, and ordinary high water mark (OHWM). The OHWM at the structure is 2 ft. wide and 2 ft. deep. The stream has a narrow riparian zone on the west side of Hillegas Road that consists of white ash (*Fraxinus Americana*, FACU), Queen Anne's lace (*Daucus carota*, UPL), wild teasel, *Dipsacus fullonum,* FACU), and common evening-primrose (*Oenothera biennis*, FACU). The riparian zone on the east side of Hillegas Road consists primarily of maintained lawn (Kentucky bluegrass, *Poa pratensis*, FAC). No sinuosity was present within the study area. The quality of the stream would be considered poor due to the lack of in stream habitat and bank diversity. UNT 1 would likely receive a QHEI score of 20-30 due to the above mentioned factors. UNT 1 connects to Lowther Neuhaus Ditch, which drains to Spy Run Creek, which drains to the St. Mary's River, a relatively permanent water (RPW), and tributary of the Maumee River, a traditional navigable water (TNW), therefore, would likely be considered a Waters of the U.S.

UNT 2 (approximately 94 feet onsite)

UNT 2 is a perennial, USGS Blue Line stream that flows west to east through the project area and has an upstream drainage area of 0.557 square miles. UNT 2 is a channelized stream with a silt substrate that has a defined bed, bank and OHWM. The OHWM at the structure is 12 ft. wide and 1 ft. deep. The riparian zone is forested on both sides of the structure and exhibited habitat diversity with vegetation that consisted of green ash (*Fraxinus pennsylvanica,* FACW), silver maple (*Acer saccharinum,* FACW), sugar maple (*Acer saccharum,* FACU), hackberry (*Celtis occidentalis,* FAC), American elm (*Ulmus americana,* FACW), red oak (*Quercus rubra,* FACU), amur honeysuckle (*Lonicera maackii,* UPL*)*, may apple (*Podophyllum peltatum,* FACU), Virginia creeper (*Parthenocissus quinquefolia,* FACU), false solomans-seal (*Maianthemum racemosum,* FACU), and reed canary grass (*Phalaris arundinacea,* FACW). The quality of the stream would be considered average due to the amount of instream cover and habitat diversity and the presence of riffle and run complexes. No sinuosity was present within the study area sampling reach. UNT 2 would likely receive a QHEI score of 35-45 due to the above mentioned factors. UNT 2 connects to Lowther Neuhaus Ditch, which discharges into Spy Run Creek which connects to the

St. Mary's River, a RPW, and tributary of the Maumee River, a TNW, therefore, would likely be considered a Waters of the U.S.

UNT 3 (approximately 84 feet onsite)

UNT 3 is an ephemeral stream that flows west to east through the project area and has an upstream drainage area of 0.223 square miles. UNT 3 has a defined bed, bank, and OHWM. The OHWM at the structure is 9 ft. wide by 0.5 ft. deep. The riparian zone is forested on both sides of the structure with surrounding vegetation that consists primarily of silver maple (*Acer saccharinum,* FACW), Eastern redbud (*Cercis canadensis,* FACU), American elm (*Ulmus americana,* FACW), Eastern cottonwood (*Populus deltoides,* FAC), hackberry (*Celtis occidentalis,* FAC), and amur honeysuckle (*Lonicera maackii,* UPL). The quality of the stream would be considered poor due to the high turbidity and low sinuosity present within the study area sampling reach. UNT 3 would likely receive a QHWI score of 20-30 due to the above mentioned factors. UNT 3 connects to Lowther Neuhaus Ditch, which discharges into Spy Run Creek which connects to the St. Mary's River, a RPW, and tributary of the Maumee River, a TNW, therefore, would likely be considered a Waters of the U.S.

None of these waterways are State Waters Designated for Special Protection in Indiana, listed as Outstanding State Resource Waters, listed as salmonid waterways, or are not on the Indiana Department of Natural Resources Listing of State Natural and Scenic Rivers.

4.2 Wetlands

No wetland features that met all three of the USACE wetland criteria were observed within the project study area. However, multiple wetland indicators were located past the 50 foot study area boundary that were not delineated with this investigation.

4.3 Roadside Ditches and Other Drainages

All roadside ditches and other surface drainages within the study area were also evaluated for consideration as jurisdictional Waters of the U.S. with respect to the Clean Water Act Rule [40 CFR 230.3(3)(iii)]. Jurisdictional ditches must meet the definition of tributary, have an OHWM, and flow directly or indirectly through another water to a TNW. Likely jurisdictional ditches include ditches with perennial flow; ditches with intermittent flow that drain wetlands; or ditches, regardless of flow, that are excavated in or relocate a tributary. Jurisdictional wetlands may be present within or connected to another jurisdictional Waters of the U.S. in regard to significant nexus analysis through, non-jurisdictional ditches or surface drainages. The USGS National Hydrography Dataset was investigated for evidence of significant nexus and/or captured streams within and adjacent to the project area.

Roadside ditches were observed within the study area on the south sides of UNT 2 and UNT 3. These drainage features would not be considered likely jurisdictional within the study area. These features were excavated in upland soils to convey upland drainage and had no defined bed and bank or flow regime to establish a Waters of the U.S. designation.

5.0 Conclusions

Stream investigations for the Hillegas Road Project were conducted on August 26, 2020. Three likely jurisdictional streams were identified within the study area.

These waterways are likely Waters of the U.S. Every effort should be taken to avoid and minimize impacts to the waterways. If impacts are necessary, then mitigation may be required. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

6.0 Acknowledgement

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 *Corps of Engineers Wetland Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.

Raquel Walker
Senior Environmental Specialist

7.0 References

Cowardin, D.M., Carter, V., Golet, F.C., and La Roe, E.T. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. Publication No. FWS/OBS-79/31. United States Department of the Interior, Fish and Wildlife Service, Washington, D.C.

Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. United States Department of the Army, United States Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

Indiana Department of Transportation (INDOT). 2018. *Waters of the United States Documentation.* Available at https://www.in.gov/indot/2522.htm. Accessed December 2018.

Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List*: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X.

Taylor University Environmental Research Group. 2005. *Indiana Wetland Rapid Assessment Protocol, InWRAP. Version 2.5.* Taylor University, Upland, Indiana.

United States Army Corps of Engineers (USACE). 2012. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0.* August of 2010.

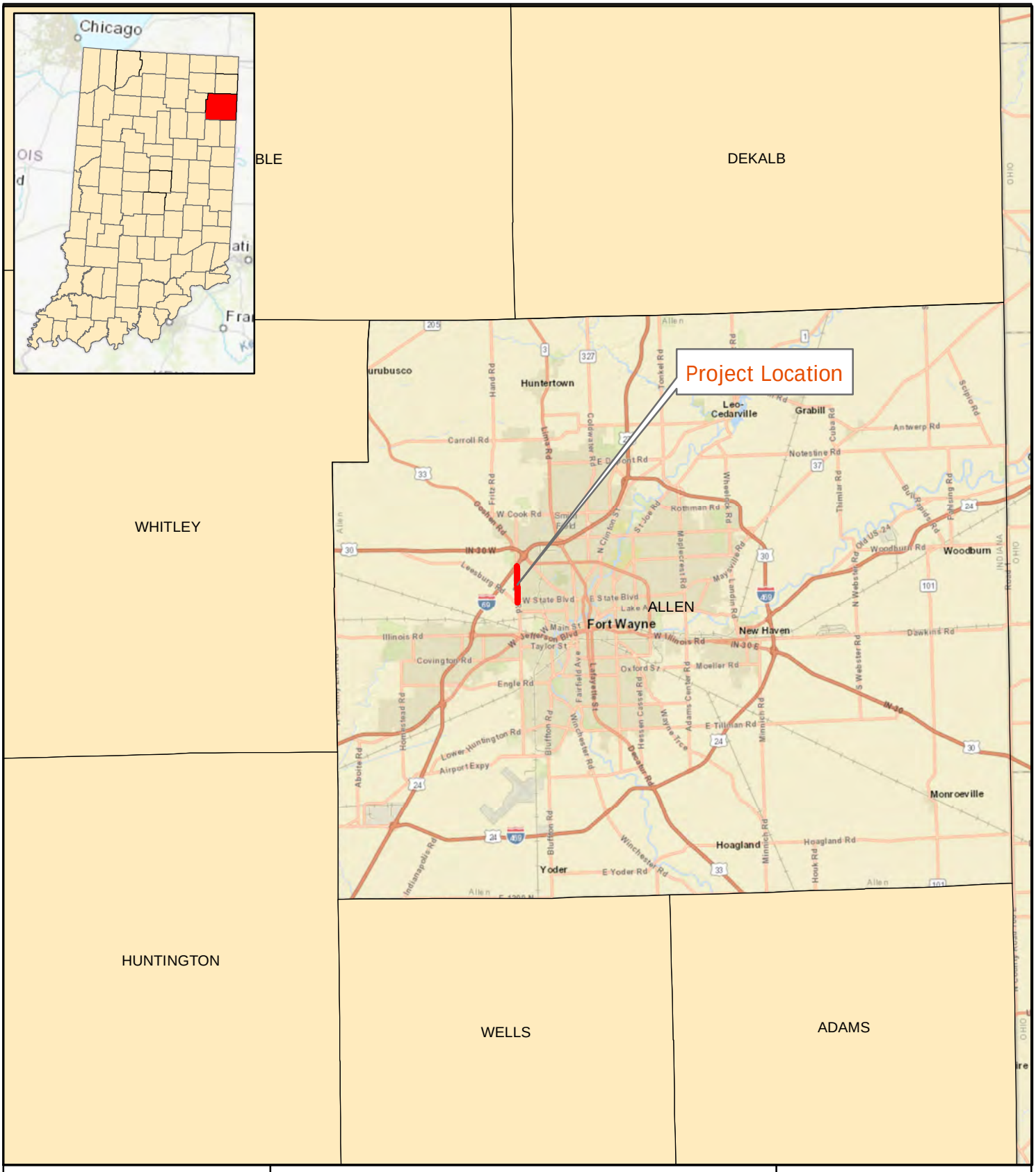
United States Department of Agriculture, Natural Resources Conservation Service (USDA-NRCS). 2006. *Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific.* U.S. Department of Agriculture Handbook, 296.

Table 2

Waterbodies Identified within the Project Study Area

Feature Name	Photo No.	Latitude, Longitude	Type	OHWM Width (ft)	OHWM Depth (ft)	Length or Acres Within Study Area (ft)	USGS Blue-Line Stream	Riffles and Pools	Substrate	Quality	Waters of the U.S.
UNT 1	1, 2, 3, 4, 5, 6	41.115913°, -85.192315°	Per.	2	2	77	No	Yes	Riprap, Silt	Poor	Yes
UNT 2	7, 8, 11, 12, 13	41.105544°, -85.192080°	Per.	12	1	94	Yes	Yes	Silt	Average	Yes
UNT 3	16, 17, 18, 19, 20, 21, 22	41.098300°, -85.192236°	Eph.	9	0.5	84	No	Yes	Silt	Poor	Yes

Project Figures



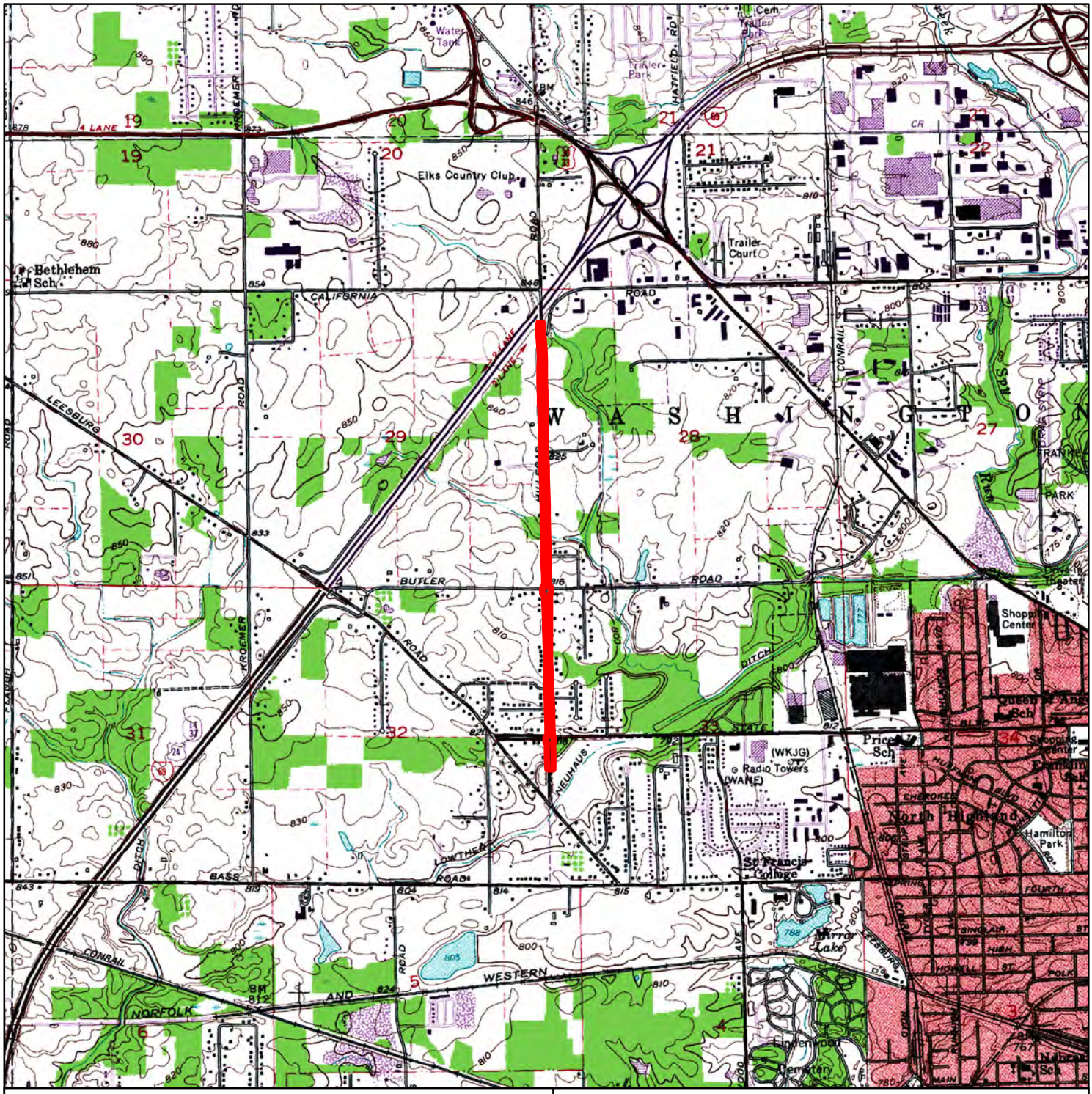
State Location Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des No. 1901705

3

gai consultants

Miles
0 2 4 8



USGS Topo Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

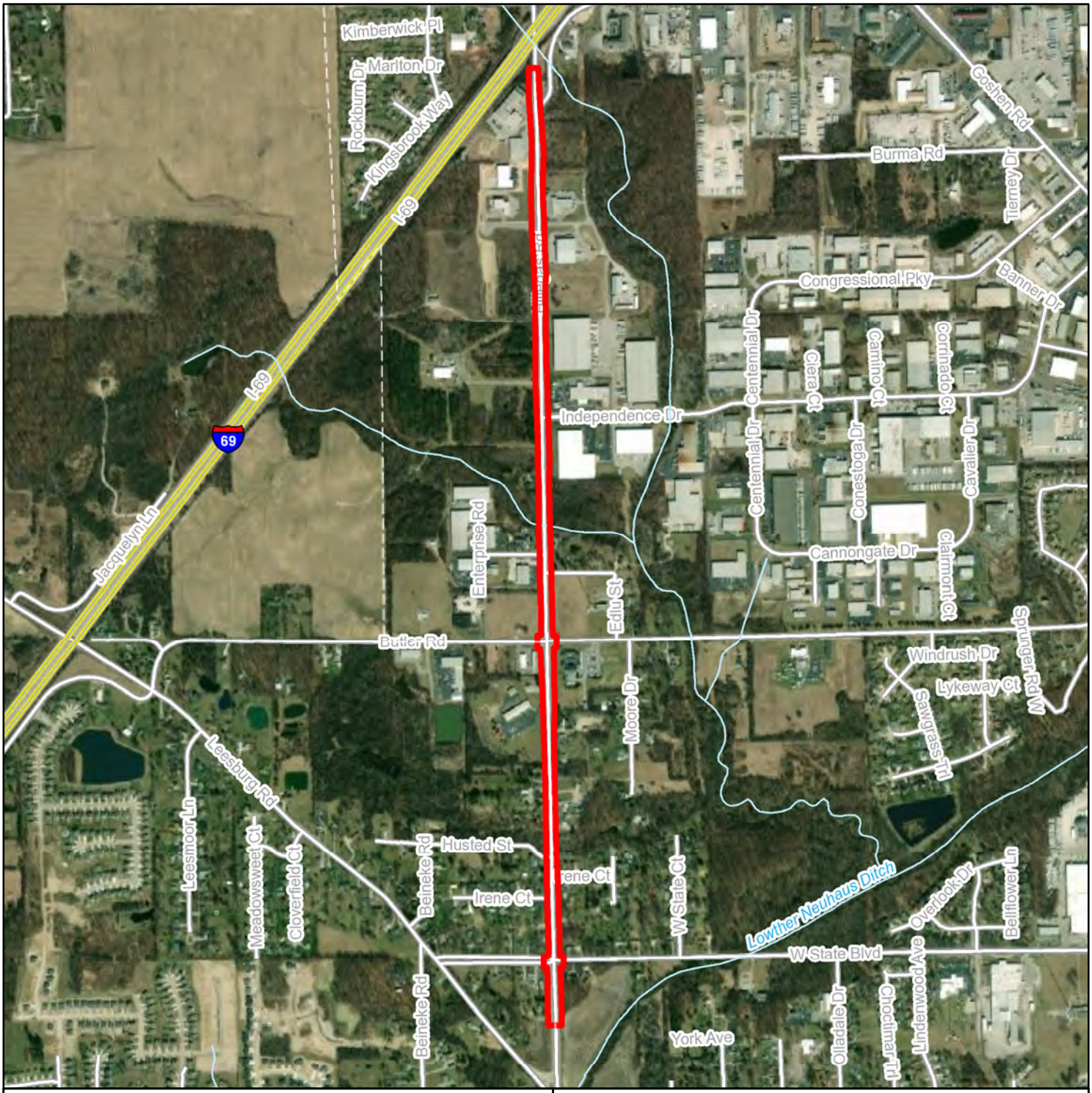
Study Area

gai consultants
transforming ideas into reality

0 1,200 2,400 4,800 Feet

FORT WAYNE WEST USGS 7.5 Minute Topo Map

Service Layer Credits: United States Geological Survey (USGS)



Aerial Location Map

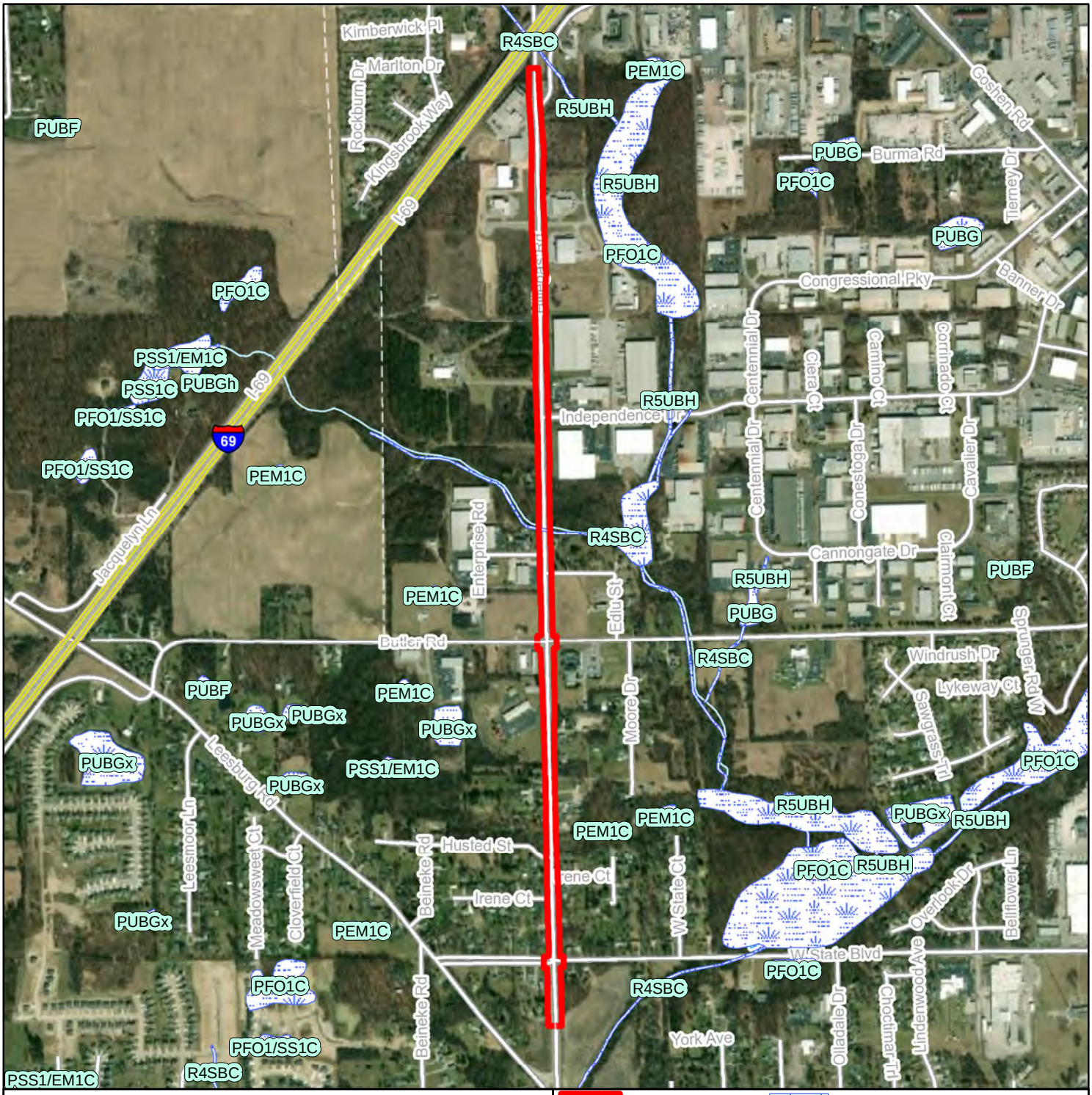
Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad

gai consultants
transforming ideas into reality

0 550 1,100 2,200 Feet

Service Layer Credits: INDOT
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,



NWI Wetlands Map

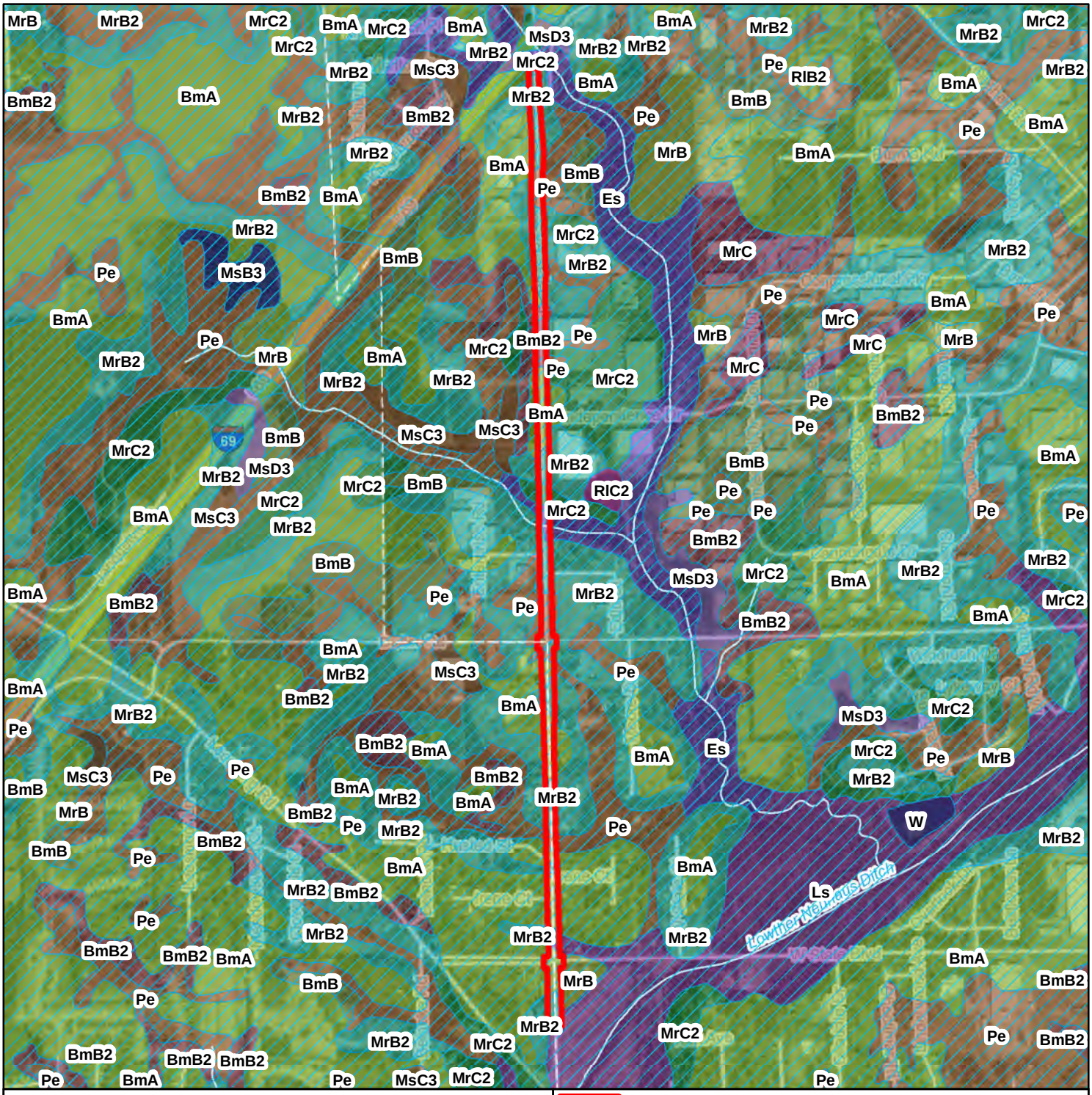
Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- NWI Wetland
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad

gai consultants
transforming ideas into reality

0 550 1,100 2,200 Feet

Service Layer Credits: INDOT
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Fish and Wildlife Serivce, National Wetlands Inventory



NRCS Soils Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad

- BmA
- BmB2
- Es
- Ls
- MrB
- MrB2
- MrC2
- Pe
- Hydric

gai consultants
transforming ideas into reality

0 550 1,100 2,200 Feet

Service Layer Credits: INDOT
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Agriculture, Natural Resources Conservation Service Soil Survey Geographic

FEMA Floodzone Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad

Flood Hazard

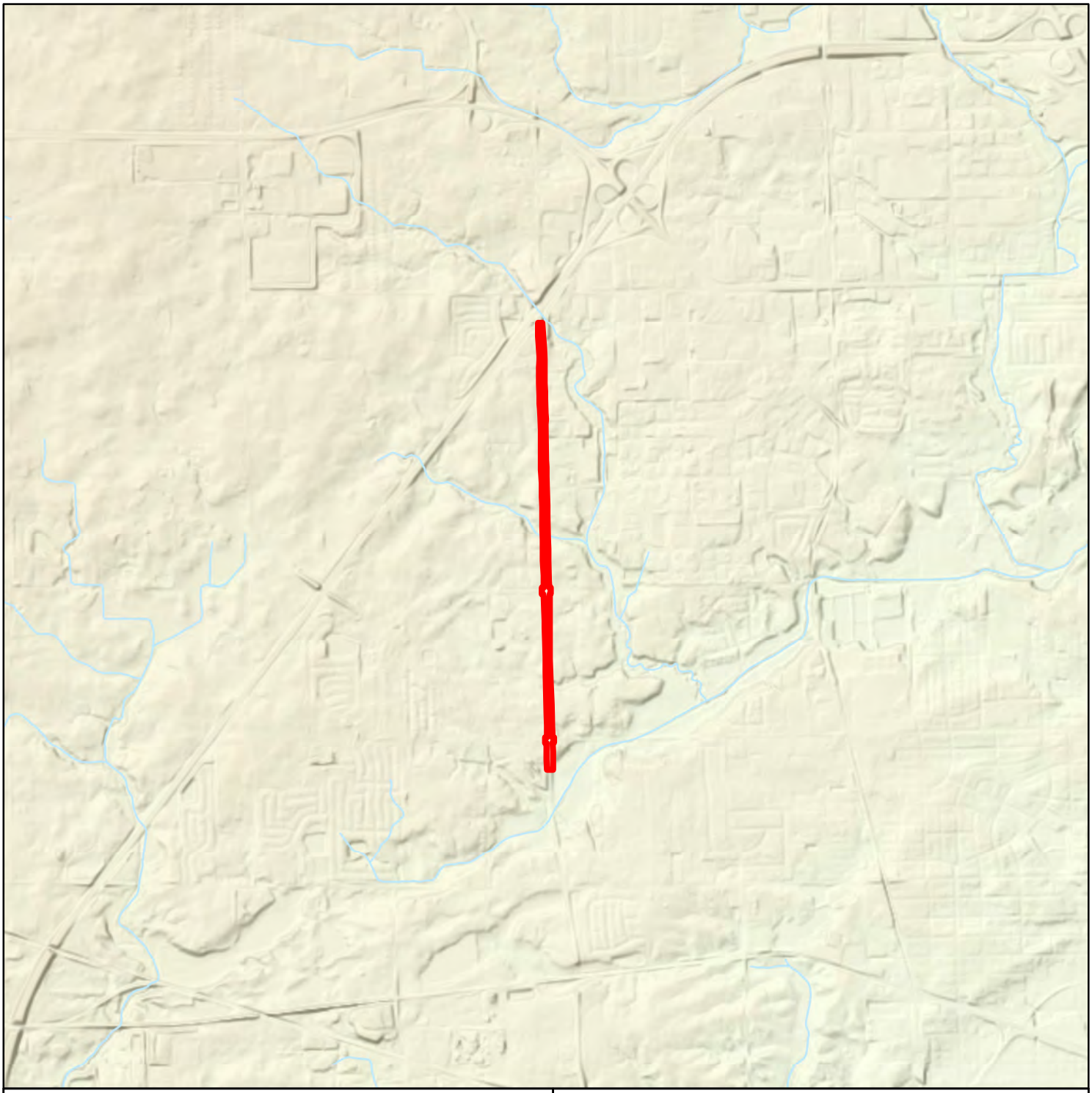
- A
- AE
- X
- FLOODWAY

FIRM PANEL(S): 18003C0280G

gai consultants
transforming ideas into reality

0 550 1,100 2,200 Feet

Service Layer Credits: INDOT
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Indiana Department of Natural Resources FIRM Floodplains and Flood Hazards of Indiana, FEMA NFHL



LiDAR Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

Study Area

gai consultants
transforming ideas into reality

0 1,200 2,400 4,800 Feet

Service Layer Credits: INDOT
IGIC, IOT, UITS, IGS, Woolpert

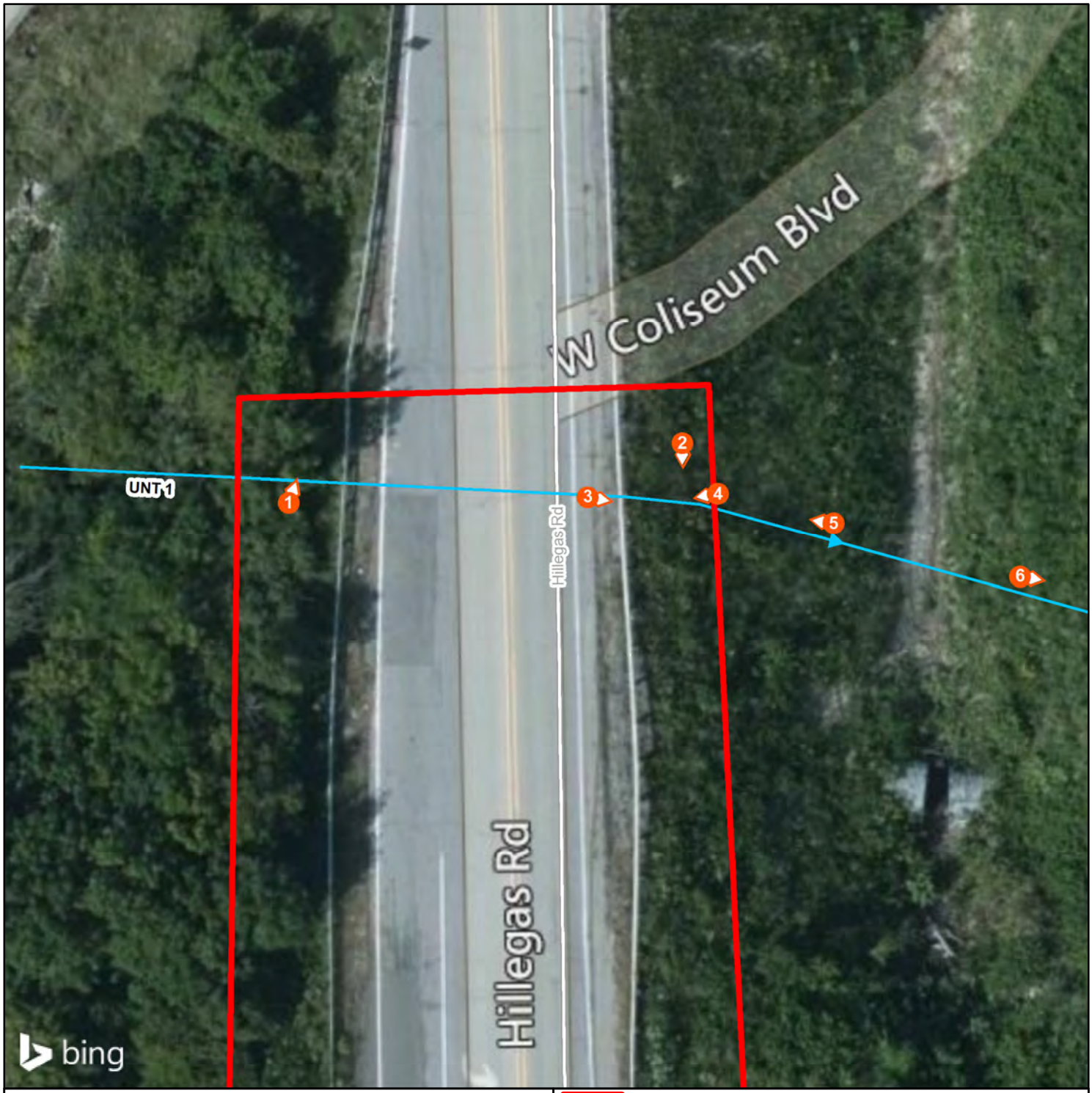


Photo Location Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad
- Photo Points
- Delineated Streams

gai consultants
transforming ideas into reality

0 10 20 40 Feet

Service Layer Credits: INDOT

Photo Location Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad
- Photo Points
- Delineated Stream
- Drainage Feature

gai consultants
transforming ideas into reality

0 10 20 40 Feet

Service Layer Credits: INDOT
© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS © 2020 HERE

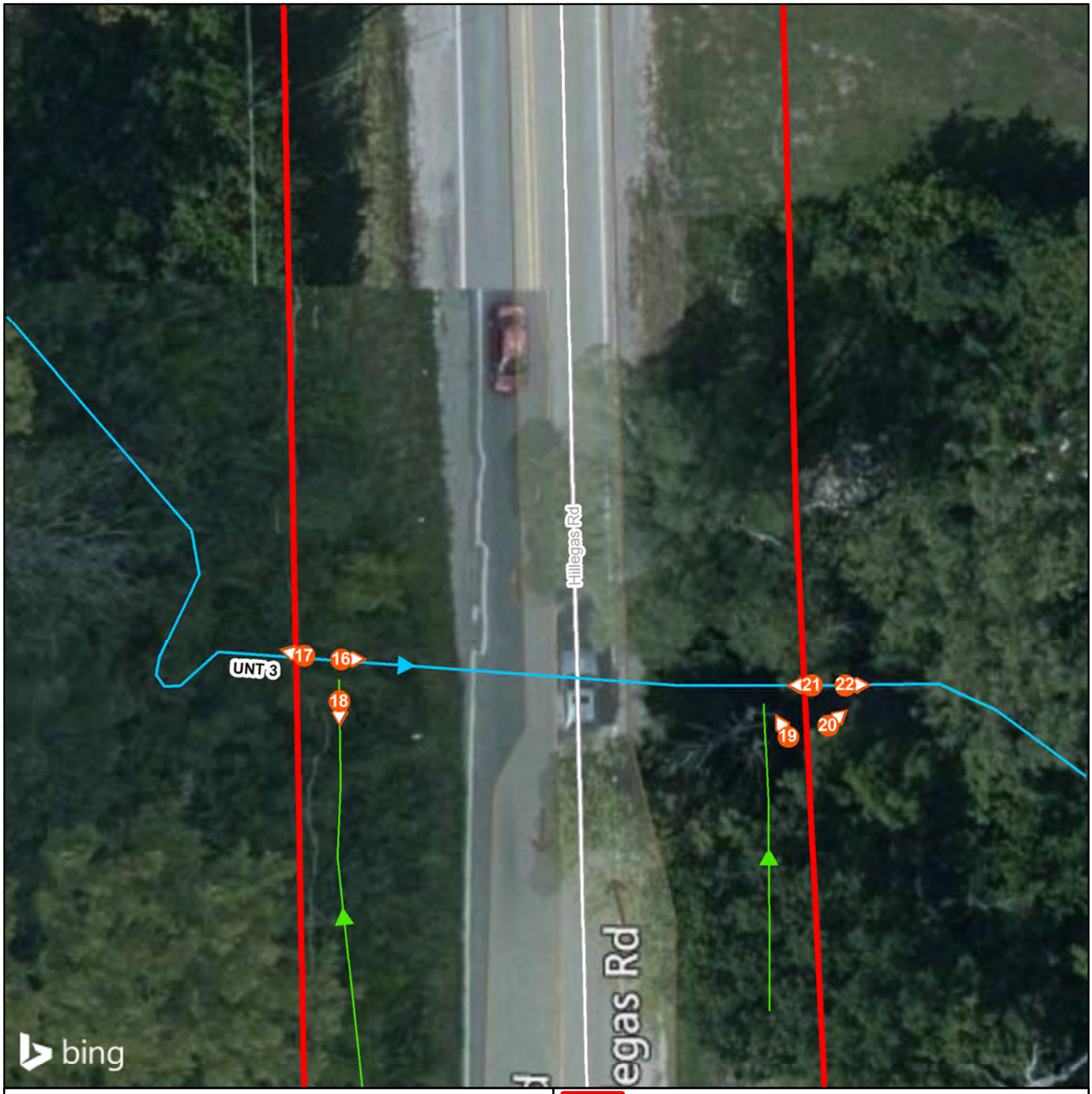


Photo Location Map

Hillegas Road, from State Blvd. to Coliseum Blvd.
Added Travel Lanes Project
Allen County, Indiana
Des 1901705

- Study Area
- Interstate
- US Roads
- State Roads
- Local Roads
- Railroad
- Photo Points
- Delineated Stream
- Drainage Feature

gai consultants
transforming ideas into reality

0 10 20 40 Feet

Service Layer Credits: INDOT

Photographs

Photos Taken: August 26, 2020

Photo 1. Looking north at the inlet of UNT 1 on the west side of the Hillegas Road and West Coliseum Blvd. intersection.

Photo 2. Looking south towards the outlet of UNT 1 on the east side of the Hillegas Road and West Coliseum Blvd. intersection.

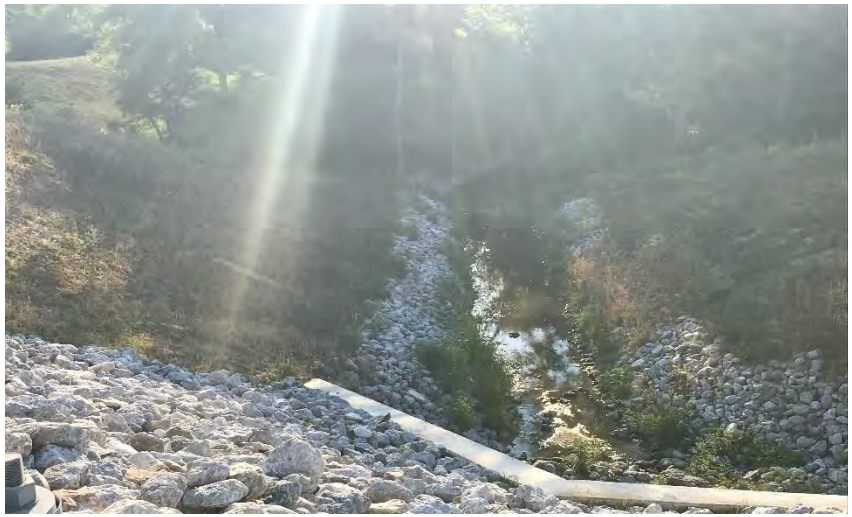


Photo 3. Looking east (downstream) towards the outlet of UNT 1 on the east side of the Hillegas Road and West Coliseum Blvd. intersection.

Photo 4. Looking southwest towards the outlet of UNT 1 on the east side of the Hillegas Road and West Coliseum Blvd. intersection.

Photo 5. Looking west (upstream) towards the outlet of UNT 1 on the east side of the Hillegas Road and West Coliseum Blvd. intersection.

Photo 6. Looking east (downstream) towards UNT 1 on the east side of the Hillegas Road and West Coliseum Blvd. intersection.

Photo 7. Looking west towards the inlet of UNT 2 on the west side of Hillegas Road, approximately 0.18 mile north of Butler Road.

Photo 8. Looking east towards the inlet of UNT 2 on the west side of Hillegas Road, approximately 0.18 mile north of Butler Road.

Photo 9. Looking south at a roadside ditch that drains towards UNT 2 on the west side of Hillegas Road.

Photo 10. Looking southeast towards a roadside ditch that drains towards UNT 2 on the west side of Hillegas Road.

Photo 11. Looking east towards the outlet of UNT 2 on the east side of Hillegas Road, approxiamtely 0.18 mile north of Butler Road.

Photo 12. Looking northwest at the outlet of UNT 2 on the east side of Hillegas Road, approximately 0.18 mile north of Butler Road.

Photo 13. Looking east (downstream) towards UNT 2 on the east side of Hillegas Road, approximately 0.18 mile north of Butler Road.

Photo 14. Looking south towards the concrete ditch on the east side of Hillegas Road that drains towards UNT 2.

Photo 15. Looking southeast at the beginning of the concrete ditch that drains towards UNT 2 on the east side of Hillegas Road.

Photo 16. Looking east towards the inlet of UNT 3 on the west side of Hillegas Road, approximately 0.17 mile north of State Blvd.

Photo 17. Looking west (upstream) from within the channel of UNT 3 on the west side of Hillegas Road, approximately 0.17 mile north of State Blvd.

Photo 18. Looking south towards a concrete ditch just south of UNT 3 on the west side of Hillegas Road, approximately 0.17 mile north of State Blvd.

Photo 19. Looking northwest towards the outlet of UNT 3 on the east side of Hillegas Road, approximately 0.17 mile north of State Blvd.

Photo 20. Looking northeast towards UNT 3 on the east side of Hillegas Road, approximately 0.17 mile north of State Blvd.

	
Photo 21. Looking west (upstream) towards the outlet of UNT 3, on the east side of Hllegas Road, approximately 0.17 mile north of State Blvd.	Photo 22. Looking east (downstream) from within the channel of UNT 3 on the east side of Hillegas Road, approximately 0.17 mile north of State Blvd.

Preliminary Jurisdictional Determination Form

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 09/17/2020

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Raquel Walker, GAI Consultants, 9921 DuPont Circle Drive West, Suite 100, Fort Wayne, IN 46825

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: Hillegas Road, from Coliseum Blvd. to State Blvd., Des. No.: 1901705

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Indiana County/parish/borough: Allen City: Fort Wayne

Center coordinates of site (lat/long in degree decimal format):

Lat.: 41.104943 Long.: -85.192214

Universal Transverse Mercator: NAD83

Name of nearest waterbody: UNT 1, UNT 2, UNT 3

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
UNT 1	41.115913°	-85.192315°	77 ft.	Non-wetland water	Section 404
UNT 2	41.105544°	-85.192080°	94 ft.	Non-wetland water	Section 404
UNT 3	41.098300°	-85.192236°	84 ft.	Non-wetland water	Section 404

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.

2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there *"may be"* waters of the U.S. and/or that there *"may be"* navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- [x] Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
  Map: Delineation Report Dated September 2020.
- [x] Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - [ ] Office concurs with data sheets/delineation report.
  - [ ] Office does not concur with data sheets/delineation report. Rationale: _____.
- [ ] Data sheets prepared by the Corps: _____.
- [ ] Corps navigable waters' study: _____.
- [ ] U.S. Geological Survey Hydrologic Atlas: _____.
  - [ ] USGS NHD data.
  - [ ] USGS 8 and 12 digit HUC maps.
- [x] U.S. Geological Survey map(s). Cite scale & quad name: Fort Wayne West Indiana 7.5 Minute Series.
- [x] Natural Resources Conservation Service Soil Survey. Citation: USDA NRCS Soil Survey Geographic (SSURGO) Database for Allen County, Indiana.
- [x] National wetlands inventory map(s). Cite name: NWI accessed 2020.
- [ ] State/local wetland inventory map(s): _____.
- [x] FEMA/FIRM maps: 18003C0280G.
- [ ] 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- [x] Photographs: [x] Aerial (Name & Date): ESRI World Imagery 2014.
  or [x] Other (Name & Date): Delineation Report Dated September 2020 (Photos August 26, 2020).
- [ ] Previous determination(s). File no. and date of response letter: _____.
- [ ] Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

_____	_____
Signature and date of Regulatory staff member completing PJD	Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)[1]

[1] Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.